

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 6 C12N15/57 C12N9/64- A61K38/48 G01N33/50 C12Q1/68  
 C12N5/10 A61K48/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 6 C12N A61K G01N C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	CELL, APR 7 1995, 81 (1) P27-40, UNITED STATES, XP002010548 RICHARD I ET AL: "Mutations in the proteolytic enzyme calpain 3 cause limb-girdle muscular dystrophy type 2A." see the whole document ---	1-20
X	JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 264, no. 33, 1989, BALTIMORE, MD US, pages 20106-20111, XP002010549 HIROYUKI SORIMACHI ET AL.: "Molecular cloning of a novel mammalian calcium-dependent protease distinct from both m- and mu-types" cited in the application see figures 2,3 ---	1-8, 12-15 -/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- 'A' document defining the general state of the art which is not considered to be of particular relevance
- 'E' earlier document but published on or after the international filing date
- 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- 'O' document referring to an oral disclosure, use, exhibition or other means
- 'P' document published prior to the international filing date but later than the priority date claimed

'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

'&' document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
14 August 1996	20.08.96

Name and mailing address of the ISA  
 European Patent Office, P.B. 5818 Patentdaan 2  
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## C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 268, no. 26, 1993, BALTIMORE, MD US, pages 19476-19482, XP002010550 HIROYUKI SORIMACHI ET AL.: "A novel tissue-specific calpain species expressed predominantly in the stomach comprises two alternative splicing products with and without Ca <sup>2+</sup> -binding domain" see figure 2 ---	1-8, 12-15
X	BIOCHEMISTRY, vol. 27, 1988, EASTON, PA US, pages 8122-8128, XP002010551 SHINOBU IMAJOH ET AL.: "Molecular cloning of the cDNA for the large subunit of the High-Ca <sup>2+</sup> -Requiring form of human Ca <sup>2+</sup> -activated neutral protease" cited in the application see figure 2 ---	1-8, 12-15
Y	HUMAN MOLECULAR GENETICS, vol. 3, no. 2, February 1994, pages 285-293, XP002010552 FOUGEROUSS F. ET AL.: "Mapping of a chromosome 15 region involved in limb girdle muscular dystrophy" cited in the application see the whole document ---	1-20
Y	JOURNAL OF MEDICAL GENETICS, vol. 30, 1993, pages 385-387, XP000578358 PASSOS-BUENO M. R. ET AL.: "Evidence of genetic heterogeneity in the autosomal recessive adult forms of limb-girdle muscular dystrophy following linkage analysis with 15q probes in Brazilian families" see the whole document ---	1-20
Y	GENOMICS, OCT 1994, 23 (3) P619-27, UNITED STATES, XP000578720 RICHARD I ET AL: "Regional localization of human chromosome 15 loci." see page 625 ---	1-20
A	INT. J. BIOCHEM., vol. 22, no. 8, 1990, pages 811-822, XP002010554 JOHNSON P. ET AL.: "Calpains (intracellular calcium-activated cysteine proteinases): structure-activity relationships and involvement in normal and abnormal cellular metabolism" see the whole document ---	
3		-/-

## C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FASEB JOURNAL, vol. 8, no. 11, 1994, pages 814-822, XP002010555 TAKAOMI C. SAIDO ET AL.: "Calpain: new perspectives in molecular diversity and physiological-pathological involvement" see the whole document -----	